

Application No.: 10/763,546
Amendment dated: February 1, 2005
Reply to Office Action of November 30, 2004
Attorney Docket No.: 1002.02.div

This listing of claims will replace all prior versions and listings of claims in this application:

a.) Listing of Claims

1. (previously presented) An optical spectral monitoring system, comprising:
a broadband superluminescent light emitting diode (SLED) source; and
a tunable filter that filters an optical signal generated by the SLED source; and
a hermetic package in which the SLED source and the tunable filter are
installed.
2. (cancelled)
3. (Original) An optical spectral monitoring system as claimed in claim 1, further
comprising an optical bench on which the SLED source and the tunable filter are
installed.
4. (previously presented) An optical spectral monitoring system, comprising:
a broadband superluminescent light emitting diode (SLED) source; and
a tunable filter that filters an optical signal generated by the SLED source; and
an isolator between the SLED source and the tunable filter for blocking
backreflections into the SLED.
5. (Original) An optical spectral monitoring system as claimed in claim 1,
wherein a finesse of the tunable filter is greater than 3000.
6. (Original) An optical spectral monitoring system as claimed in claim 1,
wherein the tunable filter is a Fabry-Perot filter.
7. (currently amended) An optical spectral monitoring system, comprising:
a broadband superluminescent light emitting diode (SLED) source; ~~and~~
a microelectromechanical system (MEMS) Fabry-Perot filter that filters an
optical signal generated by the SLED source; and

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a hermetic package in which the SLED source and the tunable filter are installed.

8. (Original) An optical spectral monitoring system as claimed in claim 1, wherein the optical signal includes the 1250-1350 nanometer wavelength range.
9. (previously presented) An optical spectral monitoring system , comprising:
a broadband superluminescent light emitting diode (SLED) source;
a tunable filter that filters an optical signal generated by the SLED source; and
an optical bench on which the SLED source and tunable filter are installed, the
tunable filter being installed orthogonally in the bench to filter the optical
signal, which is propagating parallel to the bench.
10. (Original) An optical spectral monitoring system as claimed in claim 1, further comprising a detector that detects the filtered optical signal from the tunable filter.